

GARFLEX® Style 8100

GARFLEX® expansion joints feature rugged yet flexible nylon tire cord reinforcement in a molded, spherical bellows design that ensures exceptional burst pressure ratings. The streamlined flowing arch design reduces turbulence and allows smooth, quiet flow without the restricted movement you'll find with a filled arch design.

BENEFITS

- » Flowing arch design prevents sediment buildup and reduces turbulence .
- » The nylon reinforcement provides the support needed for higher pressure applications without sacrificing flexibility.
- » Floating flanges can be rotated to accommodate torsional misalignment .
- » Can be installed against flat or raised face pipe flanges without the need for gaskets or spacers.

STANDARD DESIGN

- » Tube
 - › Seamless tube creates a positive flange seal without gaskets.
- » Cover
 - › The homogeneous layer of rubber can withstand the rigors of weathering and ozone.
- » Flanges
 - › Rotating metallic flanges with zinc plating for corrosion-resistance.
 - › Multiple flange configurations available:
 - › ASME B16.5/B16.47 Series A Class 125/150 (standard)
 - › ASME B16.5/B16.47 Series A Class 250/300
 - › EN 1092-1 PN10
 - › EN 1092-1 PN16



MATERIALS OF CONSTRUCTION

- » Yellow Band – Nitrile Tube with Neoprene Cover
- » Red Band – EPDM Tube with EPDM Cover

TEMPERATURE / PRESSURE RATING

OPERATING TEMPERATURE		PRESSURE CLASS			
		10		16	
°F	°C	psi	bar	psi	bar
up to 122°	up to 50°	145	10	232	16
123° - 158°	50° - 70°	116	8	174	12
159° - 212°	70° - 100°	87	6	145	10

BELLOW SIZES

Nominal I.D. Inch (mm)	Nominal F-F		
	5" (130mm)	6" (150mm)	8" (200mm)
1 (25)	16	NA	NA
1.25 (32)	16	NA	NA
1.5 (40)	16	NA	NA
2 (50)	16	16	NA
2.5 (65)	16	16	NA
3 (80)	16	16	NA
4 (100)	16	16	NA
5 (125)	16	16	NA
6 (150)	16	16	NA
8 (200)	16	16	NA
10 (250)	16	NA	10
12 (300)	16	NA	10
14 (350)	NA	NA	16
16 (400)	NA	NA	16
18 (450)	NA	NA	10
20 (500)	NA	NA	10
24 (600)	NA	NA	10

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CERTIFICATIONS AND COMPLIANCE

Yellow Band – EPDM Tube & Cover

- » ABS Type Approved (2" - 12" ID)
- » ISO 15540 Fire Safe (Requires use of fire safe cover)
- » ASTM F-1123 Compliant
- » 46CFR56 (USCG)

VACUUM RATING*

PIPE I.D.		VACUUM	
Inch	mm	in. Hg	mm Hg
1 - 2	25 - 50	29.9	750
2-1/2	65	20.7	525
3	80	17.7	450
4	100	11.8	300
5 - 8	125 - 200	8.9	225
10	250	5.9	150
12	300	3.0	75
14 - 24	350 - 600	Not Recommended	

* At nominal FF dimensions only.

MOVEMENT CAPABILITIES

Nominal I.D.		Nominal Face to Face		MOVEMENT TYPE						
inch	mm	inch	mm	Compression		Elongation		Lateral		Angular
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	deg.
1 - 3	25 - 80	5	130	1-3/16	30	13/16	20	1-3/16	30	30
4 - 6	100 - 150	5	130	1-3/16	30	13/16	20	1-3/16	30	20
8	200	5	130	1	25	1-3/16	30	1-3/16	30	10
10 - 12	250 - 300	5	130	9/16	15	1-3/16	30	9/16	15	5
2 - 8	50 - 200	6	150	1-3/8	35	1-3/16	30	1-3/16	30	15
10 - 12	250 - 300	8	200	1-9/16	40	1-3/8	35	1-3/16	30	10
14 - 24	350 - 600	8	200	1-9/16	40	1-3/8	35	1-3/16	30	8